

FIG. 1

Model data base 1

Model	Unit	Variable	Equation
Model 1 (macro model)	Road link	Average speed of vehicle V km/h Density of vehicle D cars/km	$D_j(t+\Delta t)L_j = D_j(t)L_j + [D_{j-1}(t)V_{j-1}(t) - D_{j+1}(t)V_{j+1}(t)]\Delta t$ $V_j(t) = f(D_j(t))$
Model 2 (micro model)	Vehicle	Speed of vehicle V km/h Position of vehicle X km	$X_i(t+\Delta t) = X_i(t) + V_i(t)\Delta t$ $V_i(t+\Delta t) = g(X_{i-1}(t) - X_i(t))$

FIG.2

Segment	Model	Segment	Model	Segment	Model
A1	Model 1	B1	Model 1	C1	Model 1
A2	Model 1	B2	Model 1	C2	Model 1
A3	Model 2	B3	Model 1	C3	Model 1
A4	Model 1	B4	Model 1	C4	Model 1

FIG.3

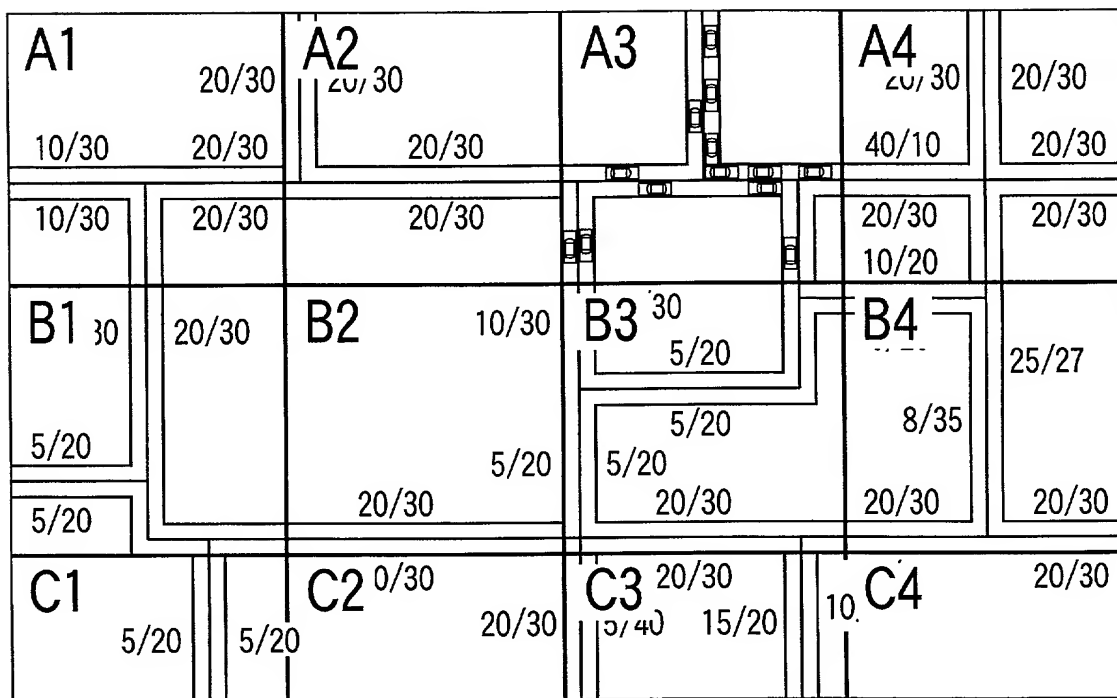


FIG. 4

D/V
D : Density cars/km
V : Average speed km/h

Time	0		8		16		24
Model	Model 1	Model 2	Model 1	Model 2	Model 1	Model 2	Model 1

FIG. 5

Segment	Time											
	0			8			16			24		
A1				Model 1				Model 2		Model 1		
A2						Model 1						
A3						Model 2						
A4	Model 1		Model 2					Model 1				
B1				Model 1				Model 2		Model 1		
B2						Model 1						
B3						Model 1						
B4	Model 1		Model 2					Model 1				
C1						Model 1						
C2						Model 1						
C3						Model 1						
C4						Model 1						

FIG. 6

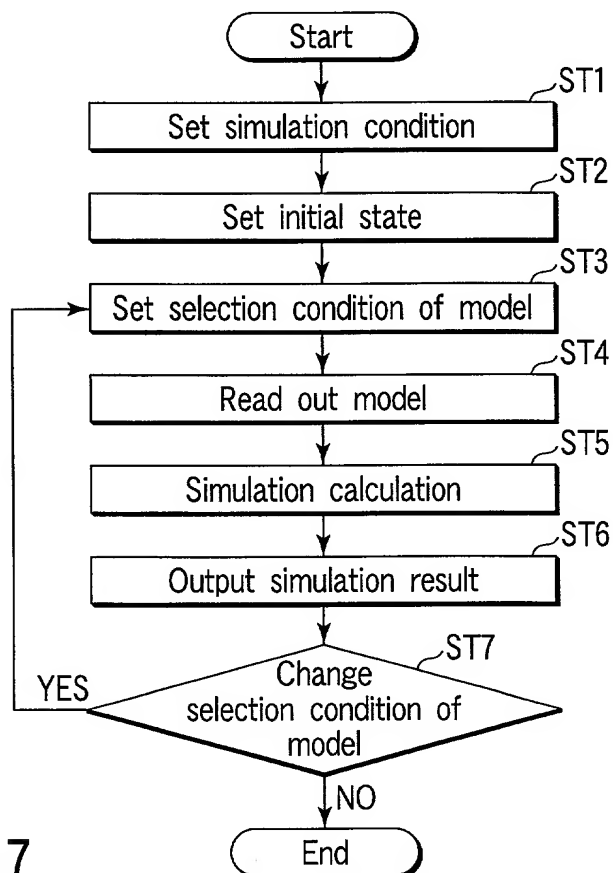


FIG. 7

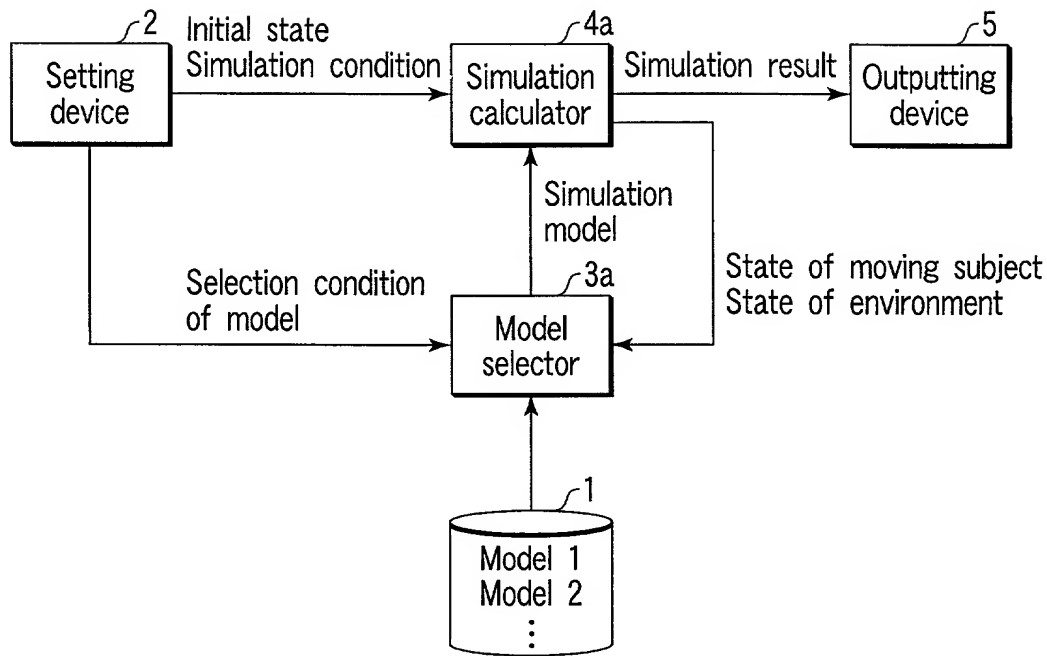


FIG. 8

FIG. 9A

IF density of vehicle > 40 cars/km THEN model 2
ELSE model 1

FIG. 9B

IF segment = A3 AND density of vehicle > 40 THEN model 2
ELSE model 1

FIG. 9C

IF time >= 6 AND time <= 9 AND average speed < 20
THEN model 2
ELSE model 1

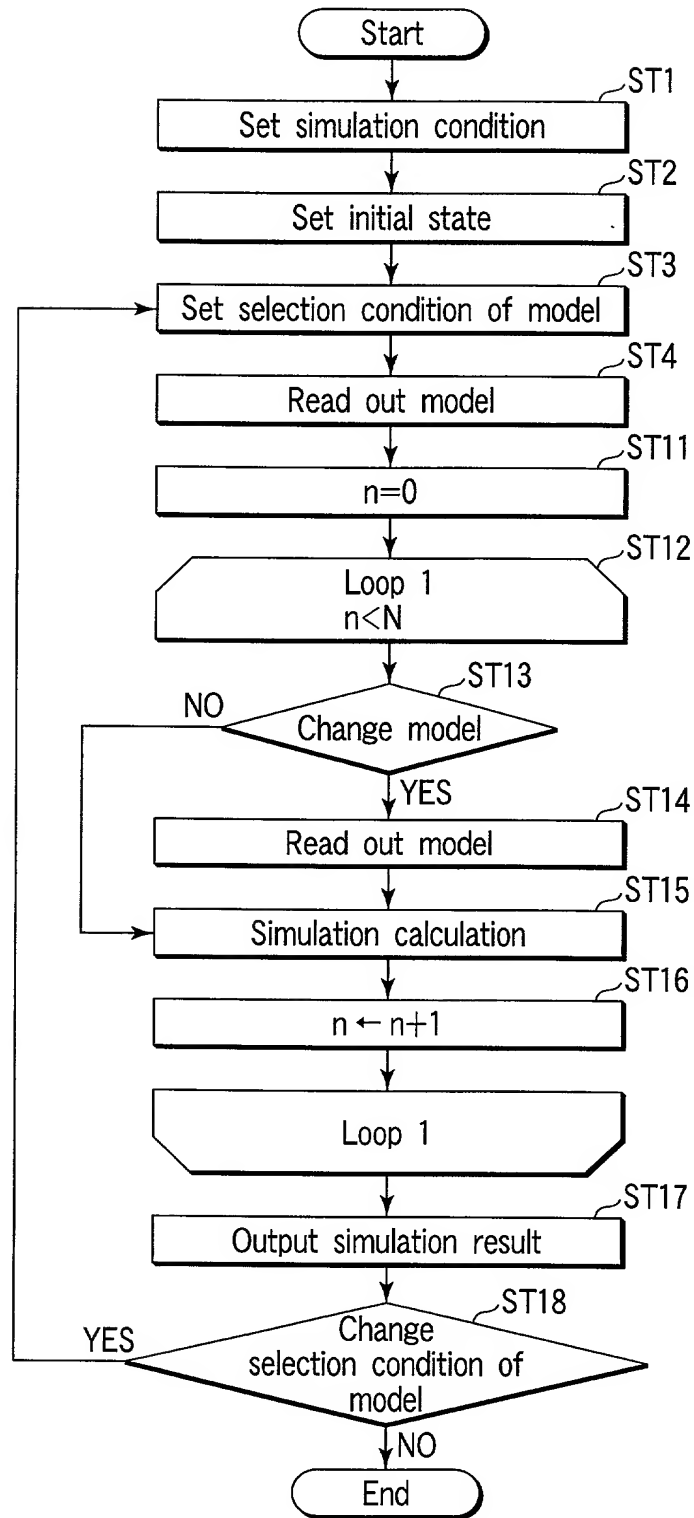


FIG. 10

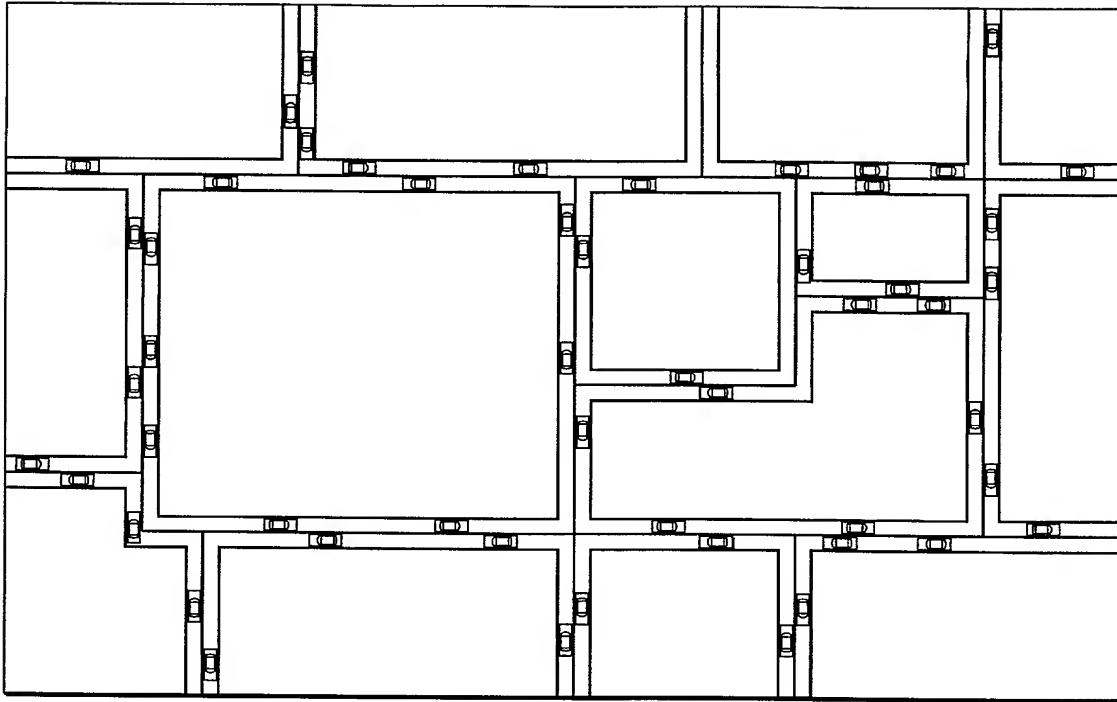


FIG. 11

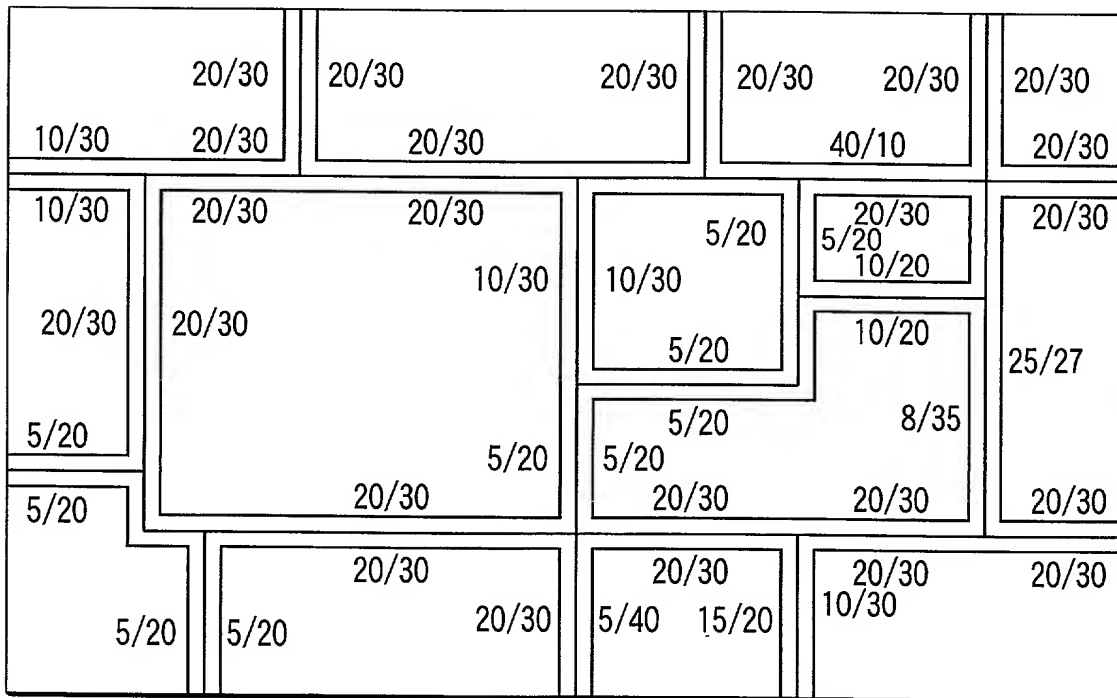


FIG. 12

D/V
D : Density cars/km
V : Average speed km/h

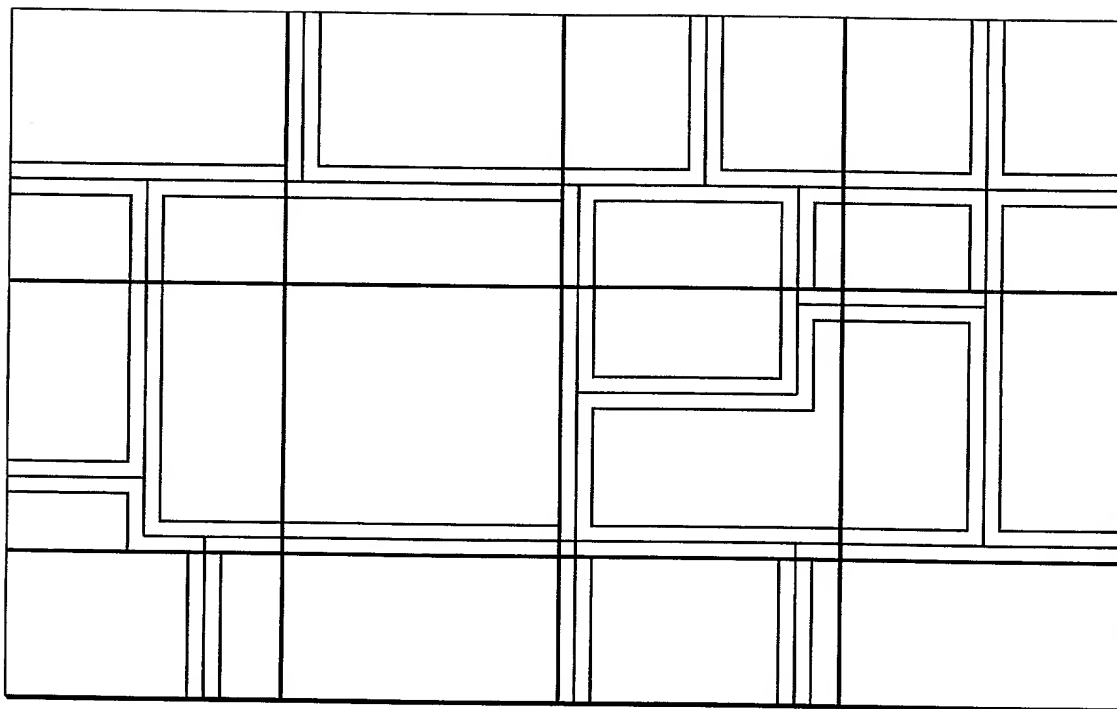
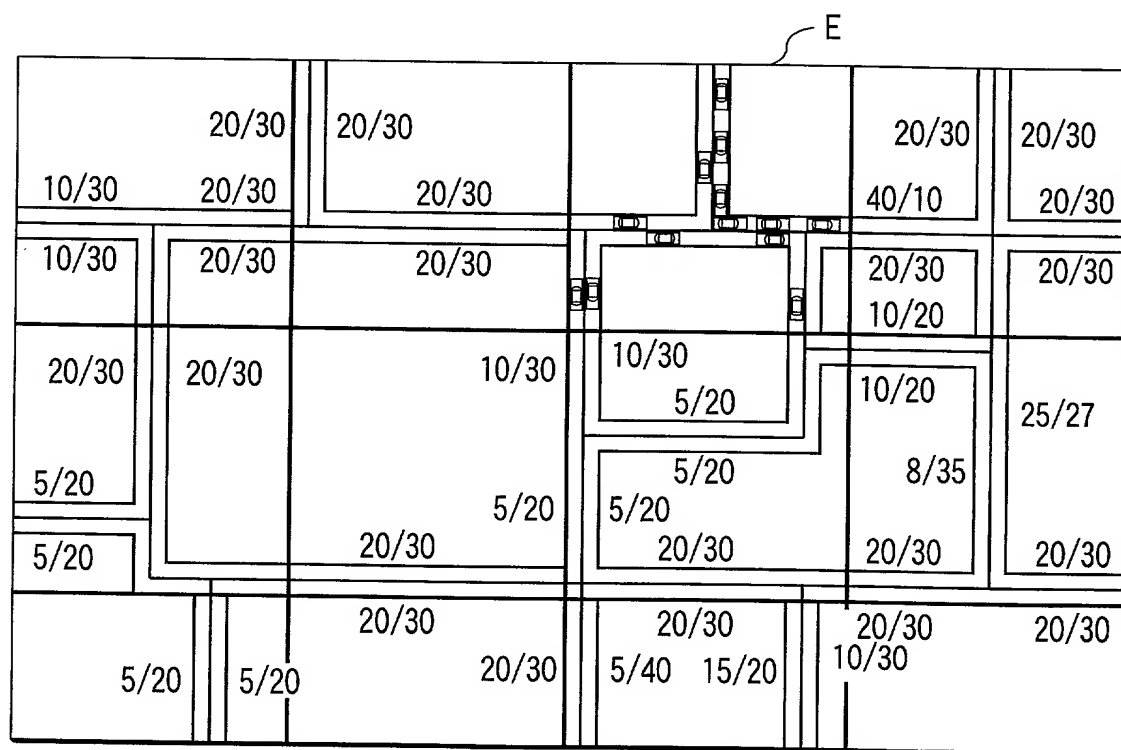


FIG. 13



D/V
D : Density cars/km
V : Average speed km/h

FIG. 14

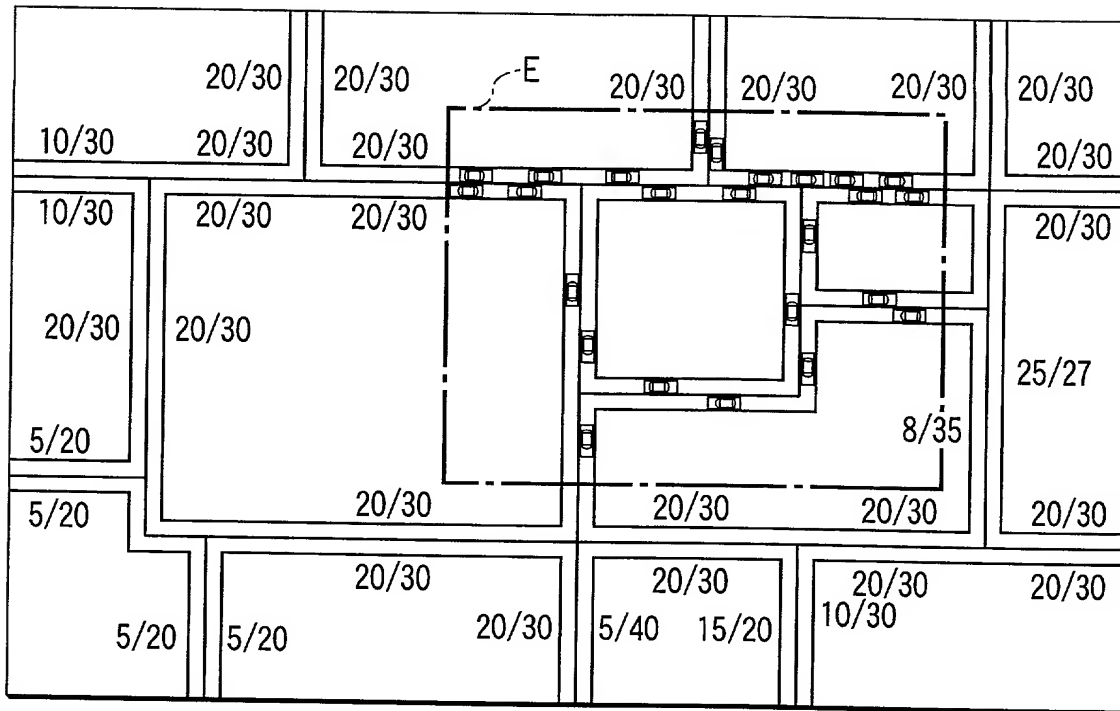


FIG. 15

D/V
D: Density cars/km
V: Average speed km/h

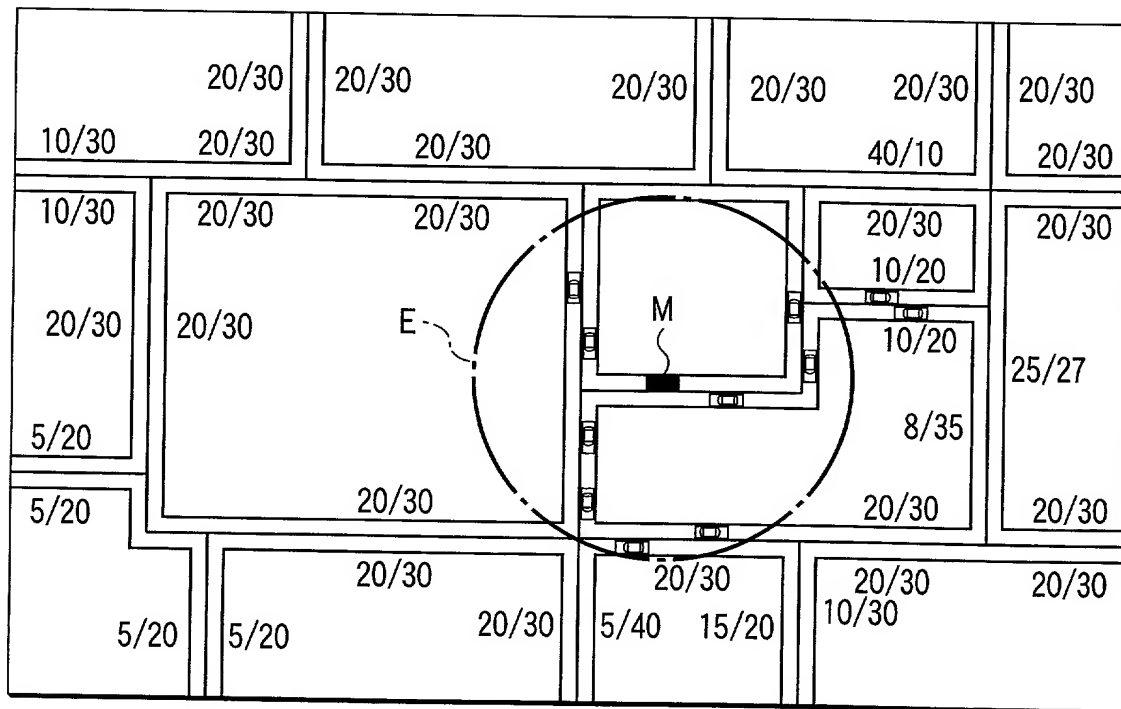


FIG. 16

D/V
D: Density cars/km
V: Average speed km/h

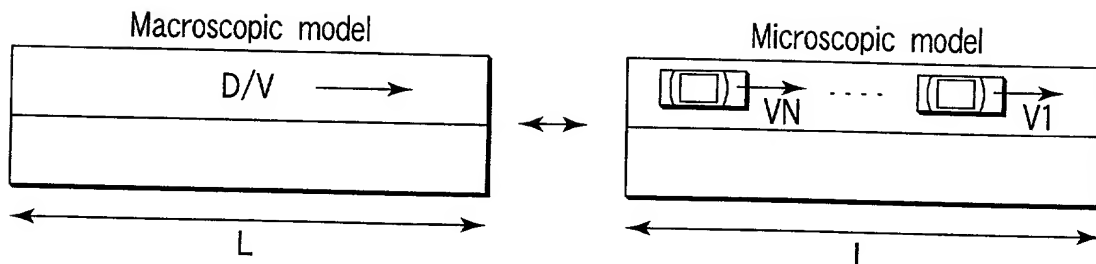


FIG. 17

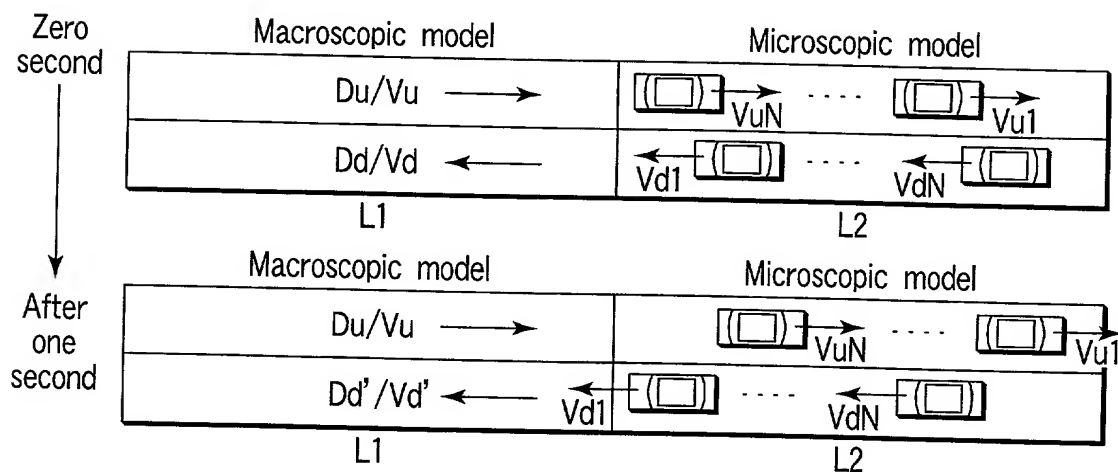


FIG. 18

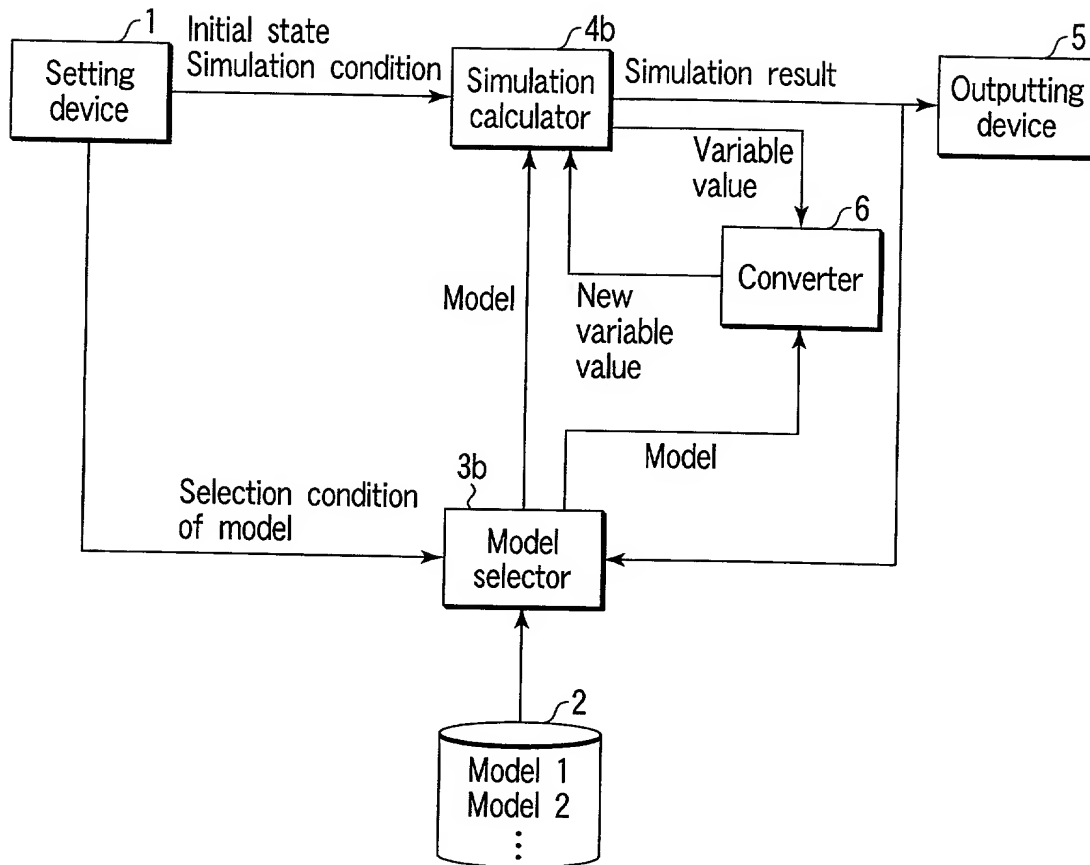


FIG. 19

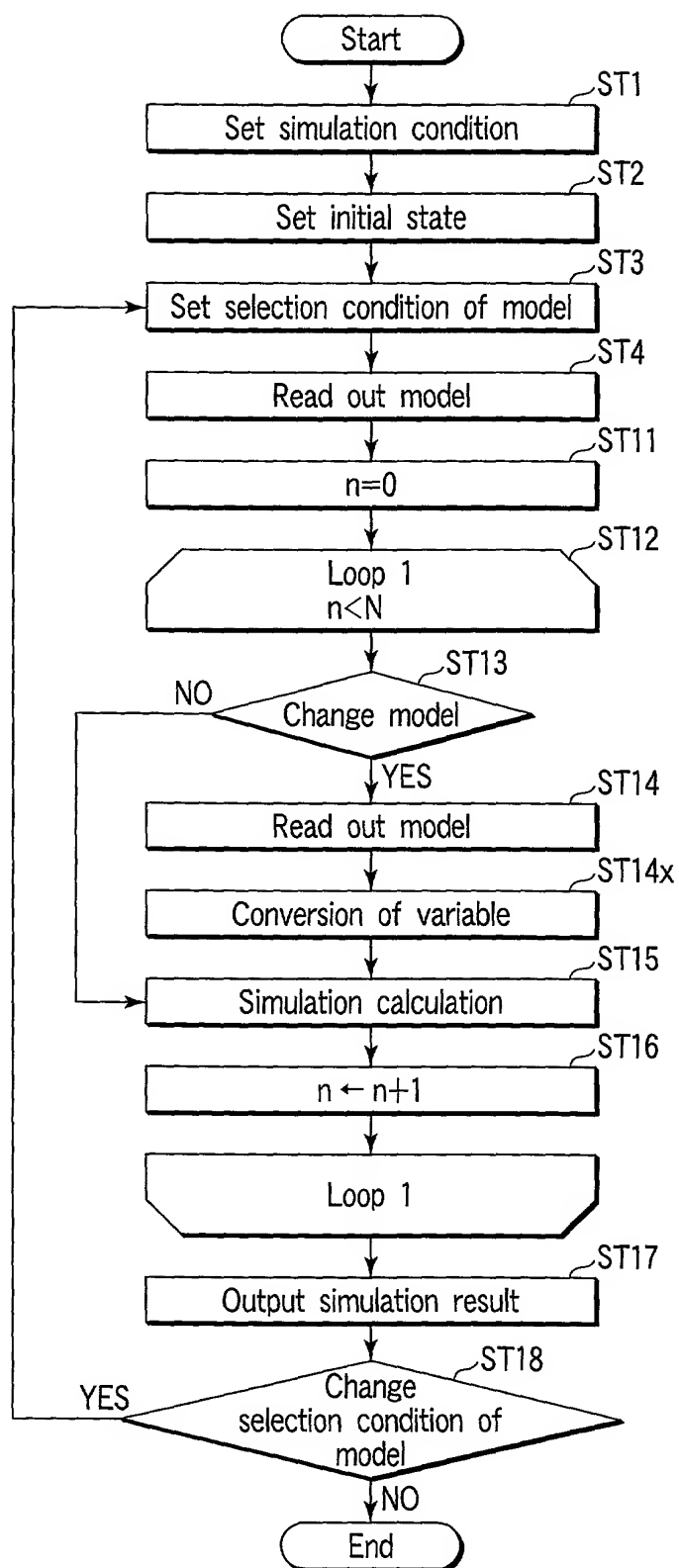


FIG. 20

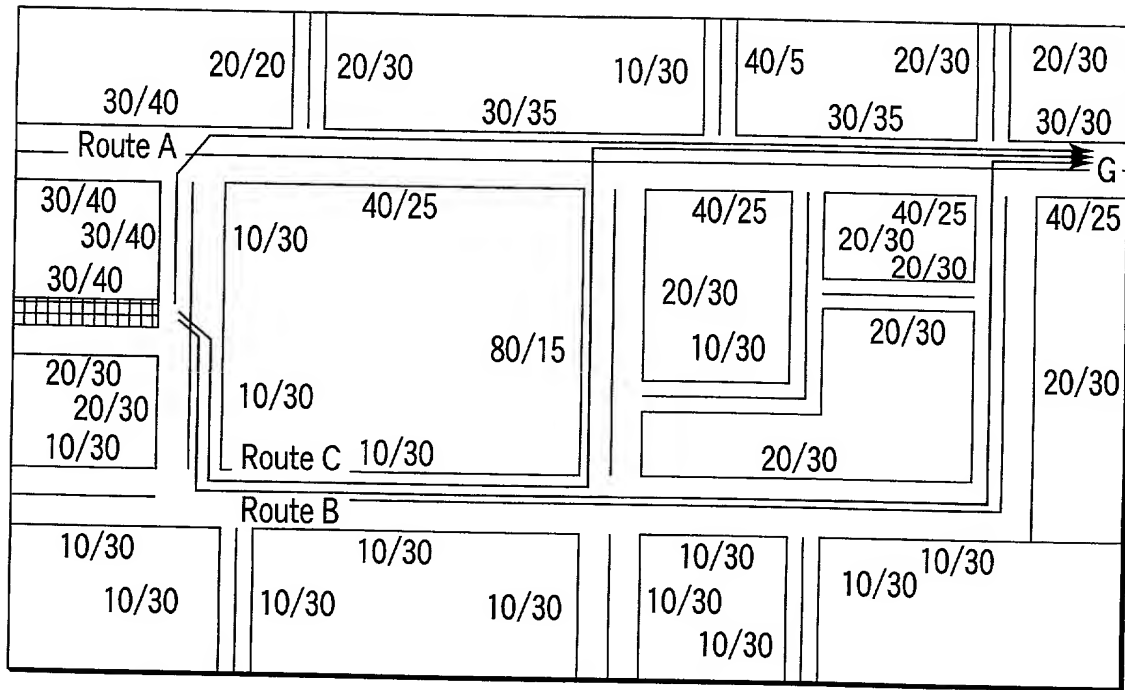


FIG. 21

D/V
D : Density cars/km
V : Average speed km/h

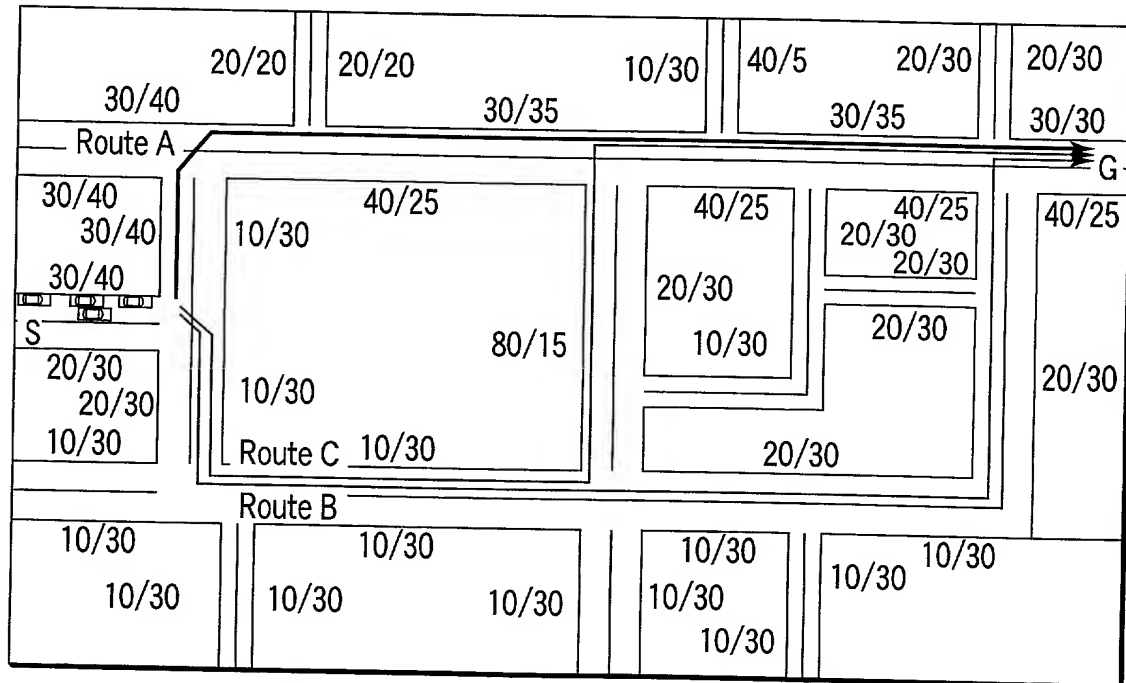


FIG. 22

D/V
D : Density cars/km
V : Average speed km/h

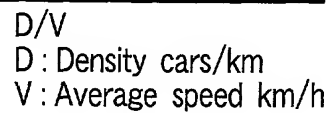


FIG. 23

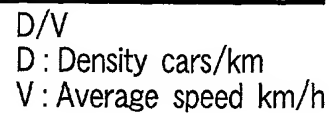
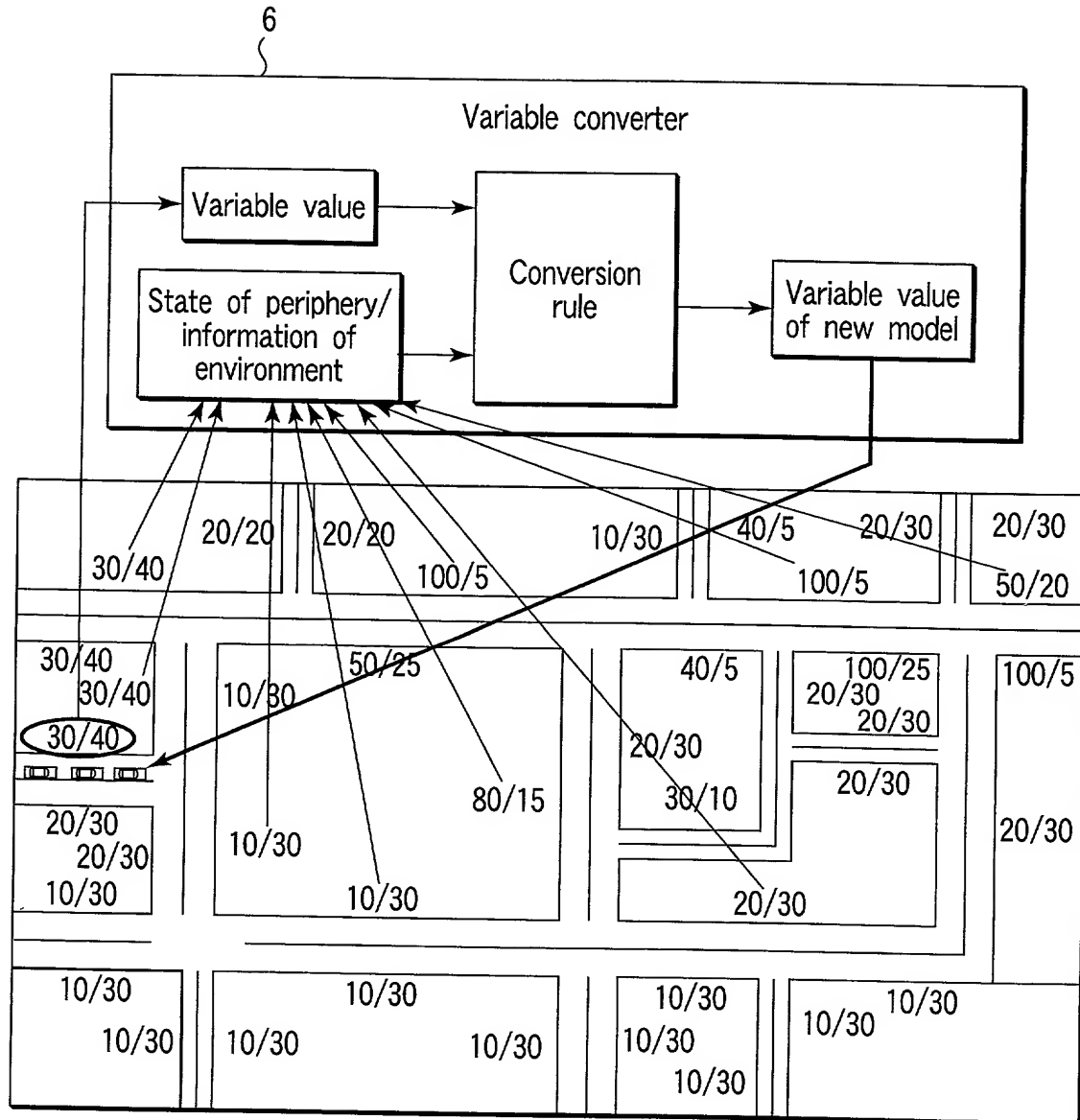


FIG. 24



D/V
D: Density cars/km
V: Average speed km/h

FIG. 25

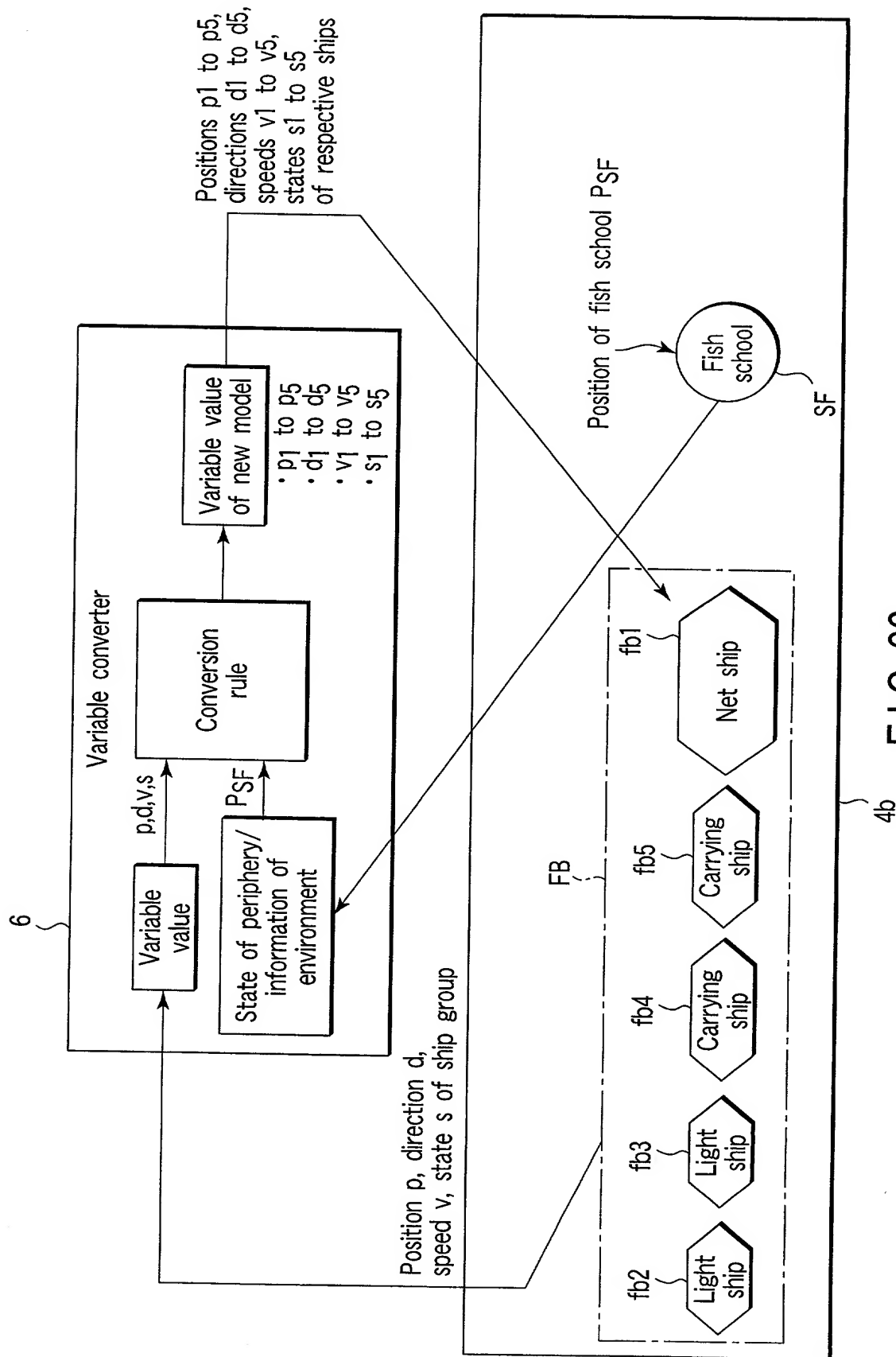


FIG. 26